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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	10/807,503	03/22/2004	Chien-Min Sung	T9790.CIP	3403	
	20551 7590 01/29/2008 THORPE NORTH & WESTERN, LLP. P.O. Box 1219			EXAMINER  LAFOND, RONALD D		
	SANDY, UT 84091-1219			ART UNIT	PAPER NUMBER	
				1792		
			•	MAIL DATE	DELIVERY MODE	
				01/29/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Appli	ation No.	Applicant(s)	Applicant(s)				
Office Action Summary			7,503	SUNG, CHIEN-M	IN				
			ner	Art Unit					
		Ronal	d D. Lafond	1792					
Period fo	The MAILING DATE of this communi or Reply	cation appears or	the cover sheet with t	he correspondence ad	idress				
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR THE M. Assions of time may be available under the provisions of the M. Assions of time may be available under the provisions of the Month's from the mailing date of this common period for reply is specified above, the maximum state to reply within the set or extended period for reply reply received by the Office later than three months after a patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF of 37 CFR 1.136(a). In runication. tutory period will apply a will, by statute, cause the	THIS COMMUNICAT o event, however, may a reply nd will expire SIX (6) MONTHS application to become AB AND	FION.  be timely filed  from the mailing date of this of the content of the conte					
Status	·								
1) 又	1) Responsive to communication(s) filed on 22 March 2004.								
/	This action is <b>FINAL</b> . 2b) This action is non-final.								
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	ion of Claims								
4) 🖂	Claim(s) 1-45 is/are pending in the a	pplication.							
•	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected.								
6)[									
7)	Claim(s) is/are objected to.								
8)⊠	Claim(s) <u>1-45</u> are subject to restriction	on and/or election	requirement.						
Applicati	ion Papers								
9) ☐ The specification is objected to by the Examiner.									
10)[	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (	under 35 U.S.C. § 119								
•	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).									
* See the attached detailed Office action for a list of the certified copies not received.									
Attachmen	t(s)								
_	e of References Cited (PTO-892)		4) Interview Sum	mary (PTO-413)					
2) Notice	e of Draftsperson's Patent Drawing Review (P	TO-948)	Paper No(s)/M	lail Date					
	mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date		5)  Notice of Information (6) Other:	mal Patent Application					

## **DETAILED ACTION**

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - 1. Claims 1 39, drawn to a method of coating, classified in class 427, subclass 248.1.
- II. Claims 40 45, drawn to a composite material, classified in class 428, subclass 457.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the product as claimed can be made by another and materially different process, e.g. wherein the Si, C, and N atoms are deposited from a non-vapor source.

Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and examination burden if restriction were not required because one or more of the following reasons apply:

- (a) the inventions have acquired a separate status in the art in view of their different classification;
- (b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;
- (c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);
- (d) the prior art applicable to one invention would not likely be applicable to another invention;
- (e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete <u>must</u> include (i) an election of a invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

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The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention.

If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 3. This application contains claims directed to the following patentably distinct species: A) The embodiment wherein the substrate is Si(111); B) The embodiment wherein the substrate contains C; and C) The embodiment wherein the substrate is an alloy of nickel, cobalt, and iron.
- 4. This application contains claims directed to the following patentably distinct species: D) The embodiment wherein the metal-containing catalyst includes a metal salt; and E) The embodiment wherein the metal-containing catalyst consists of a metal and alloys thereof.
- 5. This application contains claims directed to the following patentably distinct species: F) The embodiment wherein the Si compound is SiH<sub>4</sub>, the C compound is CH<sub>4</sub>, and the N compound is NH<sub>3</sub>; and G) The embodiment wherein the Si compound is SiCl<sub>4</sub>, the C compound is CCl<sub>4</sub>, and the N compound is NCl<sub>3</sub>.
- 6. This application contains claims directed to the following patentably distinct species: H) The embodiment wherein the tool body is a cutting tool body; I) The embodiment wherein the tool body is a light emitting diode.

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- 7. The species are independent or distinct because claims to the different species recite the mutually exclusive characteristics of such species. In addition, these species are not obvious variants of each other based on the current record.
- 8. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species from EACH of Groups A/B/C, Groups D/E, Groups F/G, and Groups H/I for prosecution on the merits (e.g. elect Species A, D, F, and H) to which the claims shall be restricted if no generic claim is finally held to be allowable.

  Currently, Claims 1 11, 23 26, 29, 30, and 33 39 are generic.

There is an examination and search burden for these patentably distinct species due to their mutually exclusive characteristics. The species require a different field of search (e.g., searching different classes/subclasses or electronic resources, or employing different search queries); and/or the prior art applicable to one species would not likely be applicable to another species; and/or the species are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete <u>must</u> include (i) an election of a species to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

The election of the species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the election of species requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected species.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of

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the species unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other species.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ronald D. Lafond whose telephone number is (571) 270-1878. The examiner can normally be reached on M - F, 9:30 AM - 6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Michael Cleveland can be reached on (571) 272-1418. The fax phone number for the organization where
this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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> ERED PARKER BRIMARY EXAMINER